

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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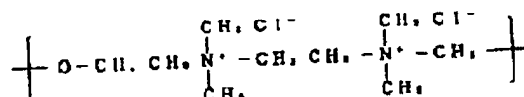
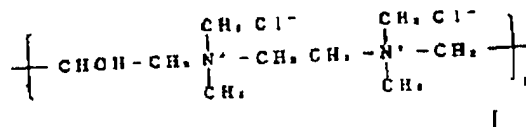
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TITLE : CLEANING METHOD



ABSTRACT : PURPOSE: To clean and remove stain based on soft scale or slime by adding hydrogen peroxide and water soluble cationic polymer to water system and using hydrogen peroxide having low concentration.

CONSTITUTION: (A) Hydrogen peroxide or hydrogen peroxide adduct (e.g. sodium percarbonate or sodium perborate) capable of producing hydrogen peroxide in water and (B) a polymer obtained by reaction of a water soluble cationic polymer, preferably alkylene polyamine and/or polyalkylene polyamine with epichlorohydrin or dichloroethyl ether and having 500-50000 molecular weight are added to a water system at amounts of the component A of 0.1-2wt.% and the component B of 0.01-0.5wt.%. A

poly[2-hydroxyethylene(di-methylimino) ethylene(dimethylimino-)methylene dichloride expressed by formula I (n is 4-40) or poly[oxyethylene (dimethyl imino)-ethylene(dimethyl imino) ethylene chloride] expressed by formula II is preferably used as the component B.

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